SHERISHORINA, S.I.; DAVIDSON, S.B.; MERINA, A.Ye.; BODUNOVA, V.A.; SHAMSHINA, M.F.; GAVRILOVA, T.P.

Certain data on the treatment of chronic dysentery in children with methylene blue with phthalazole. Pediatriia, Moskva no.3:24-26 May-June 1953. (CIML 25:1)

1. Professor for Sherishorina; Docent for Davidson; Assistant for Merina; Physicians of Children's Home No. 2 for Bodunova, Shamshina, Gavrilova.
2. Of the Department of Microbiology (Head -- Prof. S. I. Sherishorina) and the Department of Faculty Pediatrics (Head -- Docent S. B. Davidson) of Saratov Medical Institute.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120003-6"

SHERISHORINA, S.I.

Conococcal bacteriophage and its properties. Zhur.mikrobiol.epid.i immun. no.8:49-53 Ag '53. (MLRA 6:11)

1. Kafedra mikrobiologii Saratovskogo meditsinskogo instituta.
(Bacteriophagy)

SHERISHORINA, S.I., PONOMAREVA, O.I., FREYDMAN, S.L.

Isolation of Leptospira in thick media. Lab.delo 4 no.3:46-47 My-Je '58 (MIRA 11:5)

1. Iz kafedry mikrobiologii (zav. - prof. S.I. Sherishorina) Saratovskogo meditsinskogo instituta. (LEPTOSPIRA)

SHERISHORINA, S.I.

Variability of Streptococcus. Trudy Sar. gos. med. inst.
26:177-182 '59. (MIRA 14:2)

SHERISHORINA, S.I.; SOLODOVA, T.L.

Variability of micro-organisms under the influence of antibiotics. Report No. 1: Truffy Sar. gos. med. inst. 26:192-196 '59.

(MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra mikrobiologii (zav.prof. S.I. Sherishorina).
(STAPHYLOCOCCUS) (PENICILLIN)

SHERISHORINA, S.I.; VOLYHSKIY, B.G.; MOHOV, N.N.; FREYDMAN, S.L.; PONOMAREVA, O.I.

Furacillin and levomycetin therapy for patients with cystitis.

Urologiia 26 no.2:27-32 '61. (MIRA 14:3)
(BLADDER-DISFASES) (OMYCETIN) (FURAN)

ANTOLOV. A.M., prof. red.; VOL'FKOVICH, M.P., prof., red.;

ZAKHAROVA, G.N., dots., red.; IVANOV, N.P., dots., red.;

IOFFE, I.L., prof., red.; FOY, A.M., prof., red.;

SHAMARIN, P.I., prof., red.; SHERISHORINA, S.I., prof., red.

HILLEGY BUTTER CONTRACTOR OF THE CONTRACTOR OF T

[Transections of the First City Conference of Young Scientists, Medical Section] Trudy Pervoy gorodskoy konferentsii molodykh nauchnykh rabotnikov. Meditsinskaia sektsiia. Saratov, Saratovskii meditsinskii ind., 1963. 295 p. (MIRA 18:5)

l. Gorodskaya konferentsiya molodykh nauchnykh rabotnikov. Me-ditsinskaya sektsiya. lst. Saratov.

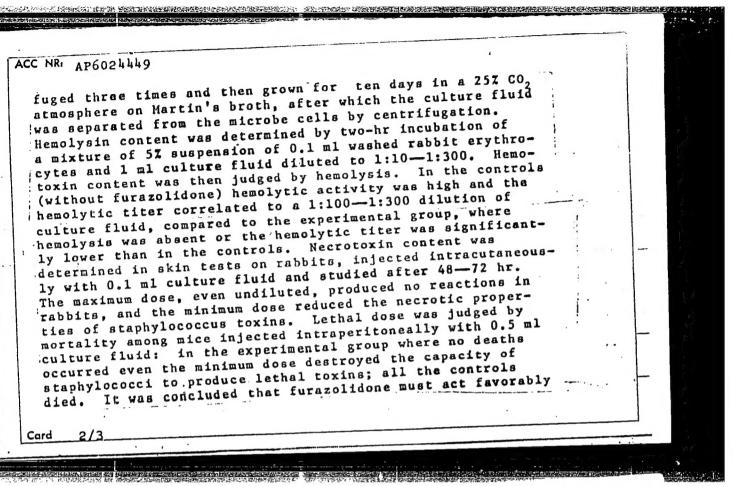
SHERISHORINA, S.I.; SHUB, G.M.; SHENDEROV, B.A.

Effect of levomycetin and some chemotherapeutic compounds on the

activity of dehydrogenases in dysentery bacilli. Antibiotiki 9 no.12: 1066-1070 D '64.

l. Kafedra mikrobiologii (zav. - prof. S.I.Sherishorina) Saratovskogo meditsinskogo instituta.

(0.10.70.11.1)	
CC NR: AP6024449 SOURCE CODE: UR/0016/66/000/007/0140/0141	C a
AUMHOR. Sherishorina, S. I.; Gasanova, Z. M.	
ong. Saratov Medical Institute (Saratovskiy meditsinskiy institut)	
TITLE: The effect of furazolidone on the toxigenicity of pyrogenic	
SOURCE: Zhurnal mikrobiologii, epidemiologii, i imunobiologii, no. 7, 1966, 140-141	
TOPIC TAGS: staphylococcus, furazolidone, toxicology, infective disease, human ailment	
ABSTRACT: The effect of furazolidone on the toxic properties of antibiotic-resistant staphylococcus was investigated by determining the output of hemolytic, necrotic, and lethal toxins in staphylococcus under experimental and control conditions. Furazolidone was used in minimum (bactericidal conditions. Furazolidone was used in minimum (bactericidal for a 50 million/1 ml concentration of microbial cells) and maximum (10 µg/1 ml) doses. Following a threa-hr incubation of staphylococcus in nutrient media with maximum cubation of staphylococcus in nutrient were centriand minimum furazolidone doses, the cultures were centriand minimum furazolidone doses, the cultures were centriand minimum furazolidone doses.	
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SHERISHORINA, S.I.; SOLODOVA, T.L.

Variability of micro-organisms under the influence of antibiotics.
Report No. 1: Truffy Sar. gos. med. inst. 26:192-196 '59.

(MIRA 14:2)

l. Saratovskiy meditsinskiy institut, kafedra mikrobiologii (zav.prof. S.I. Sherishorina).

(STAPHYLOCOCCUS) (PENICILLIN)

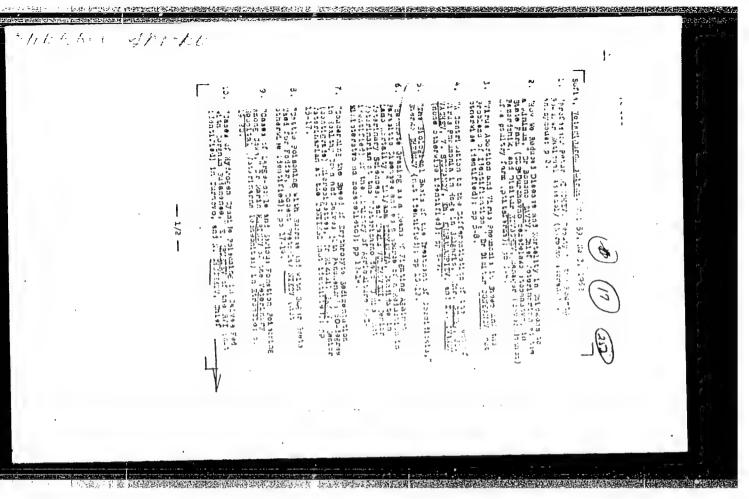
GORCHAKOV, Yu. !!.; SHERIYEV, V.A.

Finite groups, all noninvariant subgroups of which are complemented. Sib. mat. zhur. 6 no.6:1234-1253 H-D *65.
(M.RA 18:12)

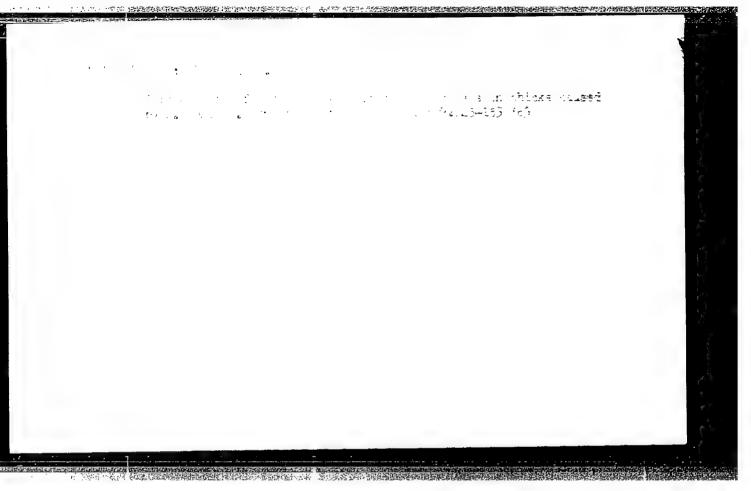
AKOPYAN, Y. Kh.; GROSS, Ye. F.; DREYNGOLD, V. I.; NOVIKOV, B. V.; TITOV, R. A.; SHERKHMAMETYEV, R. I.

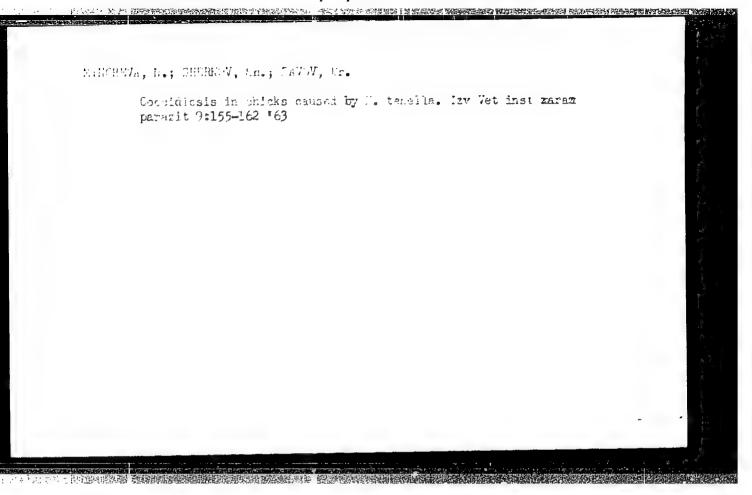
"The investigation by the photoconductivity and luminescence method of the exciton states near the edge and in the depth of the fundamental absorption in crystals."

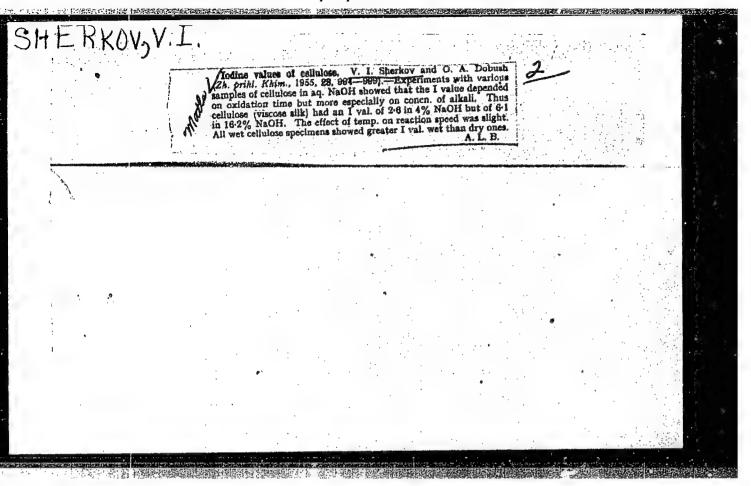
paper submitted for Intl Conf on Physics of Semiconductors, Paris, 19-24 Jul 64. Leningrad State Univ.



APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120003-6"







6(1) SOV/178-58-7-24/24

AUTHOR: Sherkovin, Yu., Major

TITLE: Some Pecularities of Radio Communications in the US Army

(Nekotoryye osobennosti radioobmena v armii SShA)

PERIODICAL: Voyennyy svyazist, 1958, Nr 7, pp 46 - 48 (USSR)

ABSTRACT: The author explains rules of radio communication in the

US Army. He used the information contained in "Tactics

and Technique of Infantry", Volume II, 1953. There is

1 American reference.

Card 1/1

TKACHUK, L.I., slesar'; SHERKUNOV, G.S., inzh.

Machine for cutting foamed concrete blocks. Suggested by L.I.
Tkachuk, G.S.Sherkunov. Bats.i izobr.predl.v stroi. no.14:37-39
'60.

1. Stroitel'nyy trest Mo.42 Chelyabinskogo sovnarkhoza,
Chelyabinsk.

(Concrete blocks) (Cutting machines)

BORDSLOVSKIY, Mikhafl Alekseyevich, dots., kand.tekhn.nauk; DOMANEVSKIY,

H.A., kand.tekhn.nauk, retsenzent; SHERLAHOY, A.P., retsenzent;

MEREKKIN, A.W., retsenzent; VENROV, S.L., kand.geogref.nauk, red.;

MAKRUSHIMA, A.N., red.izd-ve; SALAZKOV, N.P., tekhn.red.

[Waterways and ports] Vodnye puti i porty. Moskvs, Izd-vo

"Rechnoi transport." Pt.1. [Investigation of waterways] Isaledovanita vodnykh putei. 1957. 251 p.

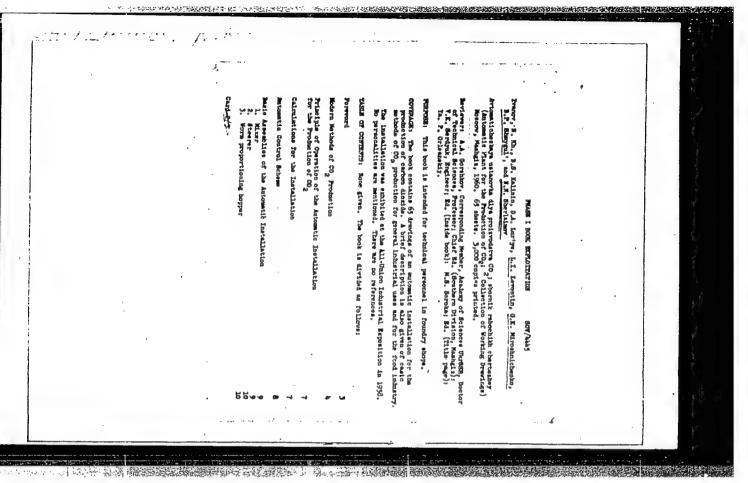
(MIRA 11:4)

(Inland navigation) (Hydraulic engineering)

IVANOV, N.Kh.; KALININ, B.S.; LUR'YE, D.A.; LEVONTIN, L.I.; MIROSHNI-CHENKO, G.K.; SHMYGUL', B.P.; SHERLAIMOV, N.N.; GORSHKOV, A.A., prof., doktor tekhn.nsuk, retsenzent; ORLEANSKIY, Ya.P., red.; SOROKA, M.S., red.

[Automatic unit for the production of CO₂. Collected working drawings] Avtomaticheskaia ustanovka dlia proizvodstva CO₂; sbornik rabochikh chertezhai. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 8 p. (MIRA 13:8)

1. Chlen-korrespondent AN USSR (for Gorshkov).
(Carbon dioxide) (Mechanical drawing)



5.375

2017 - 20-59-12--- 3/43

AUTHORS:

Berlin, A. A., Matveyeva, H. G., Sherle, A. I.

TITLE:

Letters to the Editor

PERIODICAL:

Inv estiya Akademii mauk SSSR. Otdeleniye khimicheskikh

nauk 1959, Mr 12, p 2261 (USCR)

ABSTRACT:

Reaction of 1 mole of copper patt of acetylacetone with 2 moles of tetracyanocthylene under vacuum, at 100-300°, proceeded with formation of a complex polymer and separation of acetylacetone. The polymer (infusible black substance) was insoluble in organic solvents, in bases and diluted acids. IR absorption spectrum, showed

no intense absorption bands in the 700-3,000 cm⁻¹ range, with the exception of a 2,534 cm⁻¹ tend corresponding to the CN-group. The following structure of

the cholate was supposted:

Card 1/3

Letters to the Hiltor

Elemental analysis showed the presence of acetylacetonate groups. Electron paramagnetic resonance spectrum showed broad intense lines with 500-700 cersted separation between peaks. An eqiomolar mixture of copper salt of acetylacetone, tetracyanocthylene, and fluoronitrile gave a copolymeric chelate with a presumably bandlike structure.

Card 2/3

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Letters to the Editor

77099 \$07/62**-**59**-**12**-**43/43

ASSOCIATION:

Anisotropic Structures Laboratory, Academy of Sciences, USSR (Laboratoriya anizotropicheskikh struktur Akademii nauk SSSR)

SUBMITTED:

June 5, 1959

Card 3/3

20361

\$/02 0/61/136/005/022/032 B101/E206

15 AH July 1164, 1643, 1143

AUTHORE:

Berlin, A. A., Boguslavskiy, L. I., Burshteyn, R. Kh., Matveyeva, N. G., Sherle, A. I., and Shurmovskaya, N. A.

TITLE:

Some electrophysical properties of polymer complexes of

tetraethylene cyanide with metals

PERIODICAL:

Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1127-1129

TEXT: The authors deal with the chelate compounds between tetraethylene cyanide and metals. The infusibility and insolubility of these compounds led to the proposal that coatings and plastics be manufactured from them (Ref. 3). The electrophysical properties of polymeric chelate films chemically bonded to metals, which were obtained by treatment of copper, iron, and nickel sheets with tetraethylene-cyanide vapor, were studied in this paper. The degreased and, in some cases, also electropolished or etched metal foils were exposed to tetraethylene-cyanide vapor at 10-5 mm H g and 150 to 40006. A film firmly sticking to the metal developed, the thickness of which was calculated from the specific gravity of the

Card 1/h

Some electrophysical properties ...

Biol/8206/61/136/c05/022/032

Blol/8206

polymer and from the weight of the film as being 5.10-6 = 3.10-5 cm.

(Owing to the poor combustibility of the chelate film, microanalysis produced too low carbon values). The infrared spectra of the copper complex taken by Y by Yu. Sh. Moshkovskiy and N. D. Kostrova, showed the complete absence of maxima in the range 800 - 2300 cm⁻¹. A "paramet" structure of the polymer a cording to the structural formula

行。这个人,我们就是我们的人,我们就是不是一个人,我们就是不是一个人,我们是一个人,我们就是我们的人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这

20361

\$/020/61/136/005/022/032 ₽101/∂206

Some electrophysical properties ...

is concluded therefrom. The electrophysical properties of the films were checked by means of alternating current of 200 cps - 0.2 Mc/sec. The metal covered by the film was immerced in mercury so that the film formed the dielectric of a capacitor, the plates of which consisted of the metal and of mercury. Measurements were made at 10-5mm Hg because the presence of air influenced the results. This effect needs further research. The specific conductivity of, the film capacitance and its temperature dependence, duration of heating, and the method of metal-surface treatment were determined. The following data are given for films of iron obtained after 3 hr heating at 2500C in tetraethylene-cyanide vapor: film thickness

 $3 \cdot 10^{-6}$ cm; = $3 \cdot 10^{-9}$ ohn⁻¹ ·cm⁻¹, effective dielectric constant Ξ (at 3000 cps) =7. After further 3 hr of heating, Ξ increased to

3.10-8 ohm-1.cm-1, and to 36. increase of temperature from 250 to 450°C. and heating for 10 hr produced the following values:

=5.10⁻⁸ -5.10⁻⁶ ohn⁻¹.cm⁻¹, =70. The sign of the emf indicates that the film possesses p-type conductivity. $\log \mathcal{C} = f(10^3/T)$ is represented in Fig. 2. Reasurements between -h0 and +220°C yielded two linear sections. Card 3/h

20361

Some electrombysical properties ...

\$/020/61/136/005/02**2**032 B101/B206

The first lies between -h0 and +30°C and corresponds to an activation energy of from 0.0° to 0.12 eV, while the second (30 to 250°C) corresponds to an activation energy of from 0.21 to 0.28 eV. The function represented is similar to that obtained for semiconductors with impurity conductivity. It and as functions of the logarithm of the frequency between 400 cps and 0.2 Mc/sec were also measured. Results are shown in Fig. 3. It is noted that R and the film capacitance decrease with increasing voltage when a constant voltage is applied. When a direct current is conducted through an alcoholic solution of copper sulfate, metallic copper firmly adhering to the film is deposited on the polymer film formed on iron. The high values indicate that the polarization of conductive macromolecules could be in question. The authors are preparing a study on the complex dielectric constant at higher frequencies. There are h figures and 3 Soviet-bloc references.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nank SSSR (Institute of Chemical Physics, Academy of Sciences USCR). Institut elektrokhimii nauk SSSR (Institute of Electro-

chemistry, Academy of Sciences USSR)

Card L/L

5/190/62/004/006/012/026 B110/B138

AUTHORS:

Berlin, A. A., Matveyeva, N. G., Sherle, A. I.,

Kostrova, N. D.

TITLE:

Polymers with conjugate bonds and heteroatoms in the conjugate chains. XXI. Polymeric complexes of tetraethylene

cyanide

PLATODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 860-868

TEXT: The preparation of polymers from tetraethylene cyanide and metals or metal salts was studied because: (1) tetraethylene cyanide has a planar structure, which permits conjugation via nitrile groups; (2) it shows four nitrile groups on two carbon atoms, and may form cyclic structures with and without metal atoms; (3) polymers obtained from it and the metals have so far been the only "inorganic" macromolecular compounds with directly bonded carbon, nitrogen and metals; and (4) because of the high vapor tension and heat stability of the monomer polymer complexes can be formed directly on the metal surface (Cu, Fe, Ni, Al etc). Black films which were insoluble in organic, alkaline, and

Card 1/4

s/190/62/004/006/012/026 B110/B138

Polymers with conjugate bonds...

acicic substances were obtained here after 5 - 20 hr at 150 - 450°C. The black, infusible, hygroscopic polymers obtained from tetraethylene cyanide and copper acetylacetchate (2:1) were insoluble in common organic substances, variously soluble in dimethyl formamide, pyridine, triethanolamine and concentrated H2SO4. The IR spectra of the films obtained from tetraethylene cyanide and copper showed a background at 700 - 1800 cm⁻¹ which is typical for built-up or planar polymers with conjugate bonds. Polymers from copper acetylacetonate showed a wide asymmetric absorption band at $1700 - 1400 \,\mathrm{cm}^{-1}$. For all polymers the absorption maximum lies at M2210 cm⁻¹, which corresponded to the C=N bond. The intensive background confirmed the strongly branched system of the conjugate bonds. The degree of order depends on conditions of synthesis. Polymers obtained from copper acetylacetonate showed abnormal \(\gamma \) dependence on c, similar to polyphenylenes and polyazophenylenes. The presence of neighboring CEN groups points to the formation of energetically favorable, flat azoporphin structures with or without chelate-like bonded metals:

Card 2/4

Polymers with conjugate bonds...

S/190/62/004/006/012/026 B110/B138

Polymers obtained from metals had much higher heat stability than those obtained from copper acetylacetonate, since the acetylacetonate groups bonded to a metal of different valences initiate chain decomposition into peroxide radicals. The magnetic susceptibility depends on the flux density and temperature, and is higher ($x = 1.03 \cdot 10^{-5}$ CGSM) (2000, 3500 Card 3/4

Polymers with conjugate bonds...

S/190/62/004/006/012/026 B110/B138

oersted) for a polymer obtained from acetylacetonate in absence of the solvent than for one obtained in the presence of cyclohexanone. The dependence of $\log \varrho$ on 1/T is linear for all polymers. The conductivities are 10^{-9} to 10^{-12} ohm⁻¹·cm⁻¹, the activation energy E = 10 - 15 kcal/mole. There are 5 figures and 4 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: April 8, 1961

Card 4/4

[1] 证据的数据的表现的证明证明,是是中心,是中国对抗的。中国中国企业的,是中国的统治和国际的数据的数据的数据的数据的数据的数据的数据的数据的数据的数据的数据的

LEVINA, S.D.; LOBANOVA, K.P.; BERLIN, A.A.; SHERLE, A.I.

Electric properties of the systems consisting of tetracyanoethylene and metal powders. Dokl.AN SSSR 145 no.3:602-604, J1 162.

(MIRA 15:7)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom A.N.Frumkinym.

(Ethylene) (Metals)

BERLIN, A.A. (Moskva); MATVEJEVA, N.G. [Matveyeva, N.G.] (Moskva); CERKASINA, L.G. [Gherkashina, L.G.] (Moskva); SERLE, A.I. [Sherle, A.I.] (Moskva).

Synthesis of polymers with heteroatoms and atoms of metals in a molecular chain and some of their properties. Chem prum 13 no.11:601-605 Nº63.

 ACCESSION NR: AP4041172

5/0062/64/000/006/1132/1132

AUTHOR: Sherle, A. I.; Aseyev, Yu. G.; Frankevich, Ye. L.; Berlin, A. A.; Kasatochkin, V. I.

TITLE: Formation of a tetracyanoethylene chelate polymer

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 6, 1964, 1132

TOPIC TAGS: tetracyanocthylene, organic semiconductor, semiconducting polymer, chelate polymer, copper tetrascetylenide

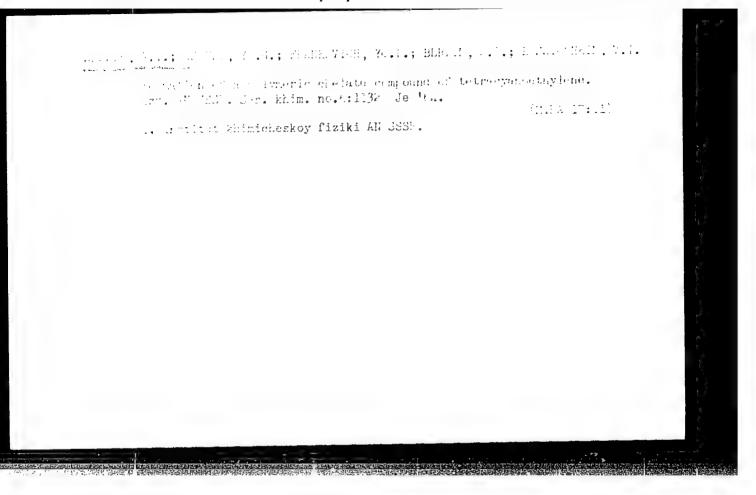
ABSTRACT: Copper tetraacetylenide (I) has been prepared, identified, and its semiconducting properties studied. Salt I was obtained in acetonitrile and with lower yield in nitrobenzene. Identification was made by elemental analysis and UV and IR spectroscopy. At below 100C, electrical conductivity (6) in vacuum was described by

 $\delta \approx 10^{-0.6} \exp(-5670/RT), \delta_{300k} = 10^{-4.7} \text{ ohm}^{-1} \text{ cm}^{-1}.$

At higher temperatures δ drops irreversibly and after heating to 1500 becomes $\delta = 10^{9.8} \exp(11900/RT)$, $\delta_{300k} = 10^{-7.8} \text{ ohm}^{-1} \text{ cm}^{-1}$.

Card 1/2

ACCESSION NR: AP4041172 If I is heated in the presence of tetracyanoethylene a new compound (II) is formed which unlike I is insoluble in acetonitrile and tetrahydrofuron. Compound II is highly soluble in H2SO4 and can be precipitated from it with water. IR spectroscopy suggests that II is a chelate polymer. The work was carried out at the Institute of Chemical Physics of the Academy of Sciences USSR. ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR) SUBMITTED: 24Mar64 ENCL: OC, SS SUB CODE: NO REF SOV: 001 OTHER: ATD PRESS: 3043 Card 2/2



L 24184-65 ENT(m)/EPF(c)/ENP(j)/T Pc-4/Pr-4 RPL RM

ACCESSION NR: AP5003830

S/0190/65/007/001/0088/0093

AUTHOR: Berlin, A. A.; Sherle, A. I.; Belova, G. V.; Boreyev, O. H. ..

TITLE: Synthesis and investigation of polymeric complexes formed in the reaction of tetracyanoethylene with powdered metals

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 1, 1965, 88-93

TOPIC TAGS: coordination polymer, polytetracyanoethylene, tetracyanoethylene

ABSTRACT: Communication 58 of the series "Polymers with a Conjugated System" reports the preparation of copper, iron, and magnesium tetracyanoethylene (TCE) coordination polymers and metal-free polytetracyanoethylene. They were made by reacting TCE with copper, iron, magnesium, or bronze in a 2/1 molar ratio in nitrobenzene in a stream of argon at 210C for 10 hr. All the coordination polymers obtained were infusible black powders, insoluble in the common organic solvents but soluble in concd $\rm H_2SO_4$. The copper-containing polymer was stable in $\rm H_2SO_4$, but the magnesium-containing polymer lost the metal to form

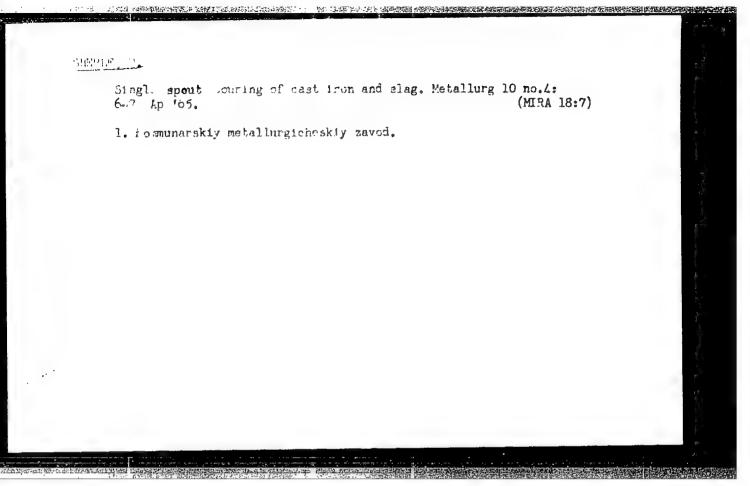
Card 1/2

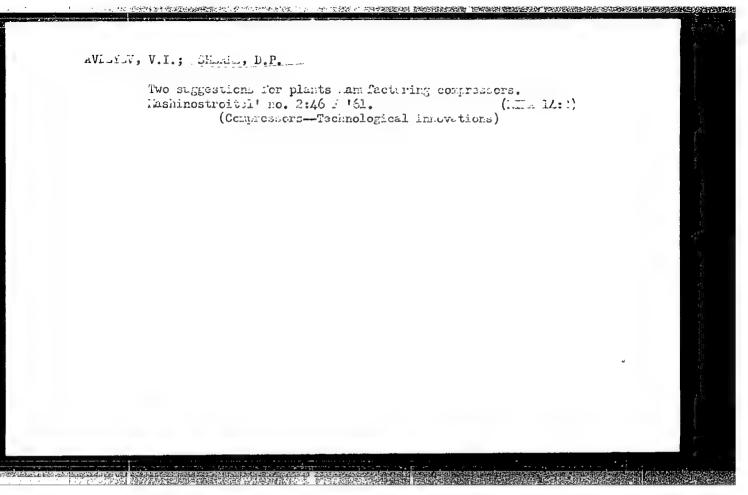
L 211184-65 ACCESSION NR: AP5003830 a metal-free polytetracyanoethylene which behaves like prepared polytetracyanoethylene. Thermal-oxidative degradation curve were typical of conjugated polymers. A porphyrazine structure was assigned to the polymers. Orig, art. hes: 3 figures I table, 3 formulas. ASSOCIATION: Institut thimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN 888R) SUBHITTED: 11Har64 ENCL: 00 SUB CODE! OC, GC NO REF SOVE 006 OTHER: 003 ATD PRESS Card 2/2

PROCE AND RIY | Unit, 1886. | Auto, 1881.N. A.A.

Theographysical properties of films of polymeric complexes
of tetracymnethylane with a metal. Chur. fiz. khim. 58
nr. fill8-1125 My '64. (MEA 18:12)

L. Institut elektrokhimi AN NSSE i Institut khimicneskoy fiziki
AN ON AL Yubmitted March 18, 1960.





DRYAPIK, Ye.P.; ZHILIN, L.P., inzh.; SHERLE, D.P., inzh.

Reorganization of the Manaunar Metallurgical Plant. Stal' 22 no.10:865-870 0'62. (MIRA 15:10)

l. Glavnyy inzh. Kommunarskogo metallurgicheskogo zavoda (for Dryapik).

(Kommunar (Donetsk Province)—Iron and steel plants)

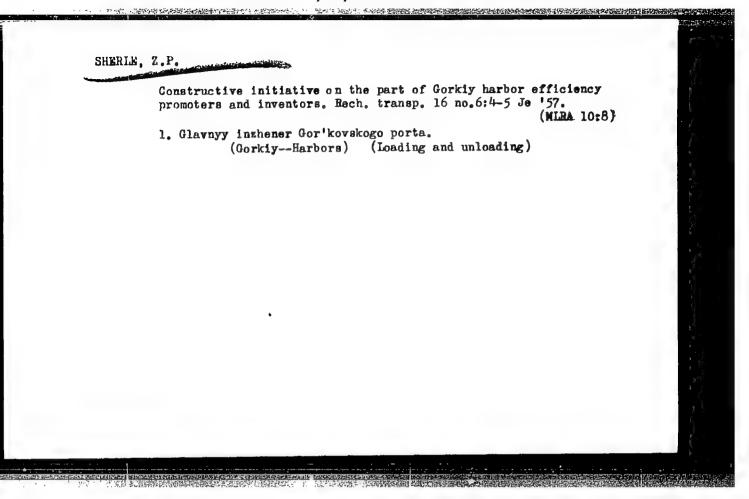
上,自己的心理,但是在国家的主义,但是自己的主义,是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

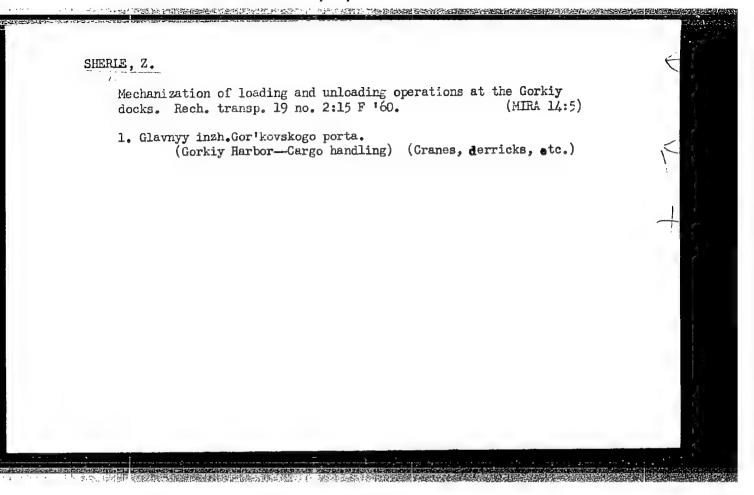
SHERLE, D. P., inzh.

Seminar on the study of progressive practices in the making of ferromanganese. Met. i gornorud. prom. no.1:80-81 Ja-F 163. (MIRA 16:4)

1. Kommunarskiy metallurgicheskiy zavod.

(Ferromanganese—Metallurgy)



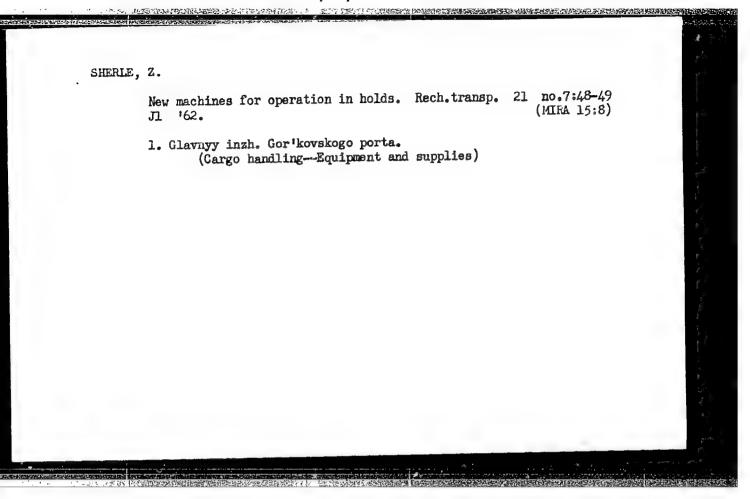


SHERLE,				
	Improve the design of floating cranes. 40 S *60.	Rech. transp.	19 no.9: (MIRA 13:9)	
	1. Glavnyy inzhener Gortkovskogo porta. (Floating cranes)			:

SHERLE, Z., dotsent; ZAKHARTSEV, V., inzh.; GLADSHEV, A., inzh.

Transportation of phosphate meal. Fech. transp. 24 no.7: 16-18 165. (MIRA 18.8)

1. Gor'kovskiy Institut inzhem rov vodnogo transporta (for Gladysnev).



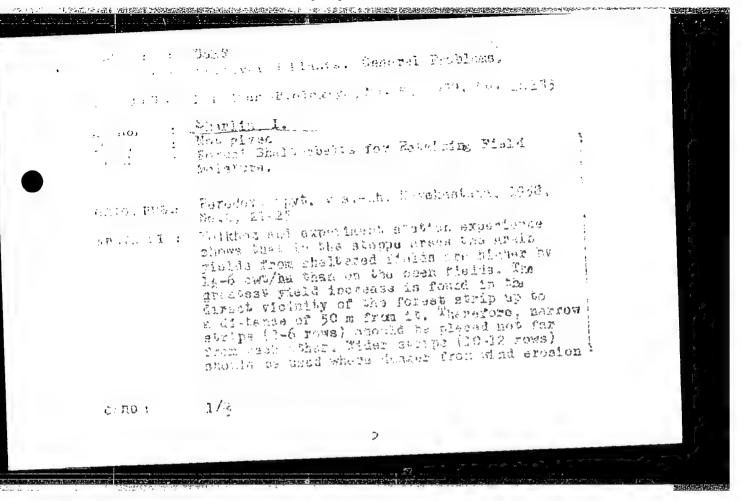
NYURKIN, I., inzh.; SHERIE, Z., inzh.

"Harbor and deck load-hoisting machinery" by A.I. Dukel'skii.
Reviewed by I. Niurkin, Z. Sherle. Rech. tránsp. 21
no.12:55-56 D '62.

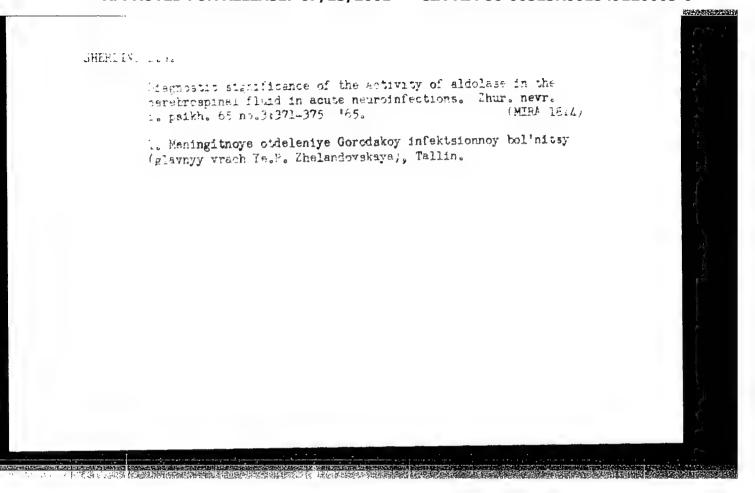
(Cranes, derricks, etc.).

(Deck machinery)

(Dukel'skii, A.I.)



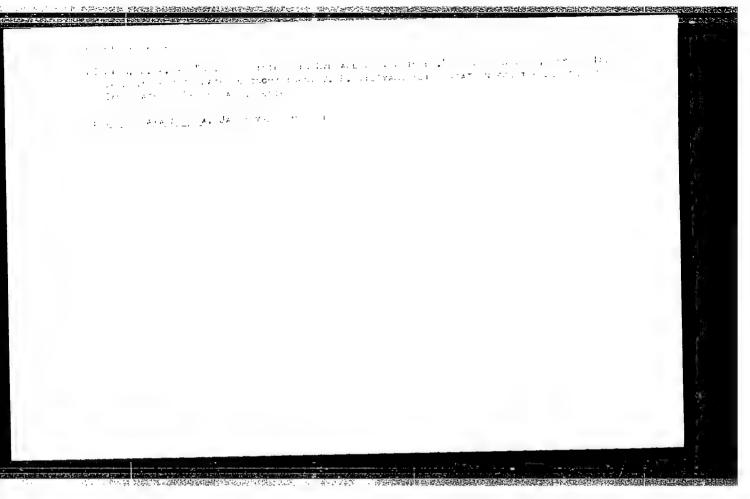
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ZEYDE, O.A.; SHEELIN, S.M.; BRUKER, A.B.

Interaction of n-halophenylhydrazines with arsenic scid. Zhur.ob.
khim. 28 no.9:2404-2407 S *58. (MIRA 11:11)

(Arsenic scid) (Hydrazine)



SYMOVATKIN, A.; SHEMMAN, A.; COLOMAN, S., red.; MUKHANOV, F., red.

[Mork practices of the "Saratovtselinstroi" Trust in the industrialization of rural construction] Opt raboty tresta "Saratovtselinstroi" po industrializatisi sel'skogo stroitel'stva. Moskva, Trest "Orgovokhozstroi", 1963. L4 p.

(MIMA 17:4)

1. Russia (1917- R.S.F.S.A.) Glavnoye upravleniye po delam sel'skogo i kolkhoznogo stroitel'stva. 2. Nachal'nik otdela tresta "Orgovokhozstroy" (for Syrovatkin). 3. Glavnyy tekhnolog tresta "Saratovtselinstroy" (for Sherman).

ACC NRI APGO33557

SOURCE CODE: UR/0181/66/008/010/2965/2969

AUTHOR: Smolenskiy, G. A.; Yudin, V. M.; Syrnikov, P. P.; Sherman, A. B.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)

TITLE: The transparent hexagonal ferrimagnet RbNiF3

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2965-2969

TOPIC TAGS: rubidium compound, magnetic property, magnetic susceptibility, magnetic anisotropy, Curie point, magnetic structure

ABSTRACT: The purpose of the investigation was to study the magnetic properties of single-crystal RbNiF3, both above and below the magnetic-transition temperature, in view of the fact that they were hitherto investigated only in the paramagnetic region in single-crystal form. Transparent RbNiF3 crystals with low dielectric losses can be of interest for modulation of light beams in microwave devices at low temperatures. The single crystals were obtained by exchange decomposition at high temperatures. The magnetic properties were investigated with a magnetic balance by the Faraday method in fields from 2 - 14 kOe. The apparatus was described earlier (FTT v. 6, 3668, 1964) and was modified to accommodate anisotropic crystals. The reciprocal magnetic susceptibility was measured as a function of the temperature and the magnetic-moment components were determined as functions of the field intensity at different temperatures. The results confirm that RbNiF3 is a ferrimagnet of the ferroxplan type with a Curie

Card 1/2

ICC NR: AP6033	557		•	.:
xhibit a compl he assumption row one with a	icated variation which	h can be interpret re is increased th plan to one having	magnetic anisotropy of RbNiF3 sed from the point of view of me magnetic structure changes a cone of easy-magentization	
UB CODE: 20/	SUBM DATE: 03Mar6	6/ ORIG REF: 0	002/ OTH REF: 005	
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ACC NR: AP6015808

form characteristic of ferrimagnets. The magnetic ordering sets in at 145K. Plots were obtained of the magnetic moment at 77K against the field intensity and against the temperature in the direction along the hexagonal axis and perpendicular to it. From these plots it is possible to estimate the field of negative uniaxial anisotropy at 77K (~25 koe) and the sum of the magnetic anisotropy constants ($K_1 + K_2 \approx -0.4 \times 10^6 \text{ erg/cm}^3$). The results are interpreted from the point of view of the collinear model of ferrimagnetism. The value obtained on this basis for the specific magnetization is 18 G-cm³/deg. Although the obtained value of the saturation magnetization per formula unit at 0°K is found to be somewhat lower than the theoretical value (~2/3 Bohr magnetons), the difference is attributed to the high temperature of the experiment (more than half the Curie temperature) of the results show that on approaching the Curie point the anisotropy constants decrease rapidly, and this gives rise to a spontaneous magnetic moment. It is concluded on the basis of all the data that RbNiF₃ is a transparent ferrimagnet of the ferroxplan type. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 25Mar66/ ORIG REF: 001/ OTH REF: 003

Card 2/2 . C L

S/128/60/000/010/008/016/XX A033/A133

AUTHORS:

Gel'perin, N. V.; Zvolinskaya, V. V.; Parfenov, V. S., and

Sherman, A. D.

TITLE:

Technological process of casting crankshafts for the A8-30 (DV-30) engine at the Vladimorovskiy traktornyy zavod (Vladi-

mirov Tractor Plant)

PERIODICAL: Liteynoye prozvodstvo, no. 10, 1960, 16 - 17

TEXT: Based on the experience of the Khar'kov "Serp i molot" Plant, the Vladimirov Tractor Plant started the casting of crankshafts for the DV. 30 engine. The authors enumerate the deficiencies occurring during the casting of the crankshaft for the CMA-7 (SMD-7) engine at the "Serp i molot" Plant and point out that the elimination of black spots by increasing the machining tolerances is not expedient; therefore, it is necessary to prevent the origination of black spots which can be attained by the desulfurization of the cast iron, bringing the S-content down to 0.008 - 0.005%. This is possible if the cast iron is smelted in a basic electric furnace. Attempts were made to eliminate the technical difficulties connected with the

Card 1/3

5/128/60/000/010/008/016/XX

Technological process of casting crankshafts... A033/A133

production of magnesium-modified cast iron by using other modifiers, like cerium, tellurium, calcium, strontium, lithium, etc. Tests proved cerium and foundry alloys on the base of cerium to be the most suitable modifiers. In comparison with magnesium, cerium offers the following advantages: no metal ejection during modification; the assimilability of cerium amounts to not less than 30%; lower sensitivity of the cast iron to demodifiers; insignificant cast iron temperature drop during the modification process (between 20 and 40°C); uniform distribution of sulfur over the casting and absence of black spots on its surface. In order to maintain a constant chemical cast iron composition during the investigations basic cast iron of the following chemical composition (in %) was smelted in a 3-ton acid electric furnace: 3.5 - 3.8 C; 2.0 - 2.2 Si; 0.8 - 1.0 Mn; not more than 0.04 S. Then this cast iron was remelted in a 50-kg capacity acid induction furnace. The metal was heated to 1,480 - 1,450°C, the modifiers (composition: 5 - 7% Mg, 10% Fe, 40 - 50% Ce, the rest rare earths) amounting to 0.4 - 0.35% of the liquid metal weight was put on the ladle bottom. To remove cementite formations and increase the mechanical properties, the cast iron was subject ed to additional modification by 0.3 - 0.4% Cm (Si) 75 ferrosilicium. After two minutes holding in the ladle the metal was poured into the crankshaft

Card 2/3

LAMEDIMONSKIY, A.V., kand.tekhn.nsuk; PLENTSOV, G.I., kand.tekhn.nsuk; SHEMAN, A.D.; AdRAMENKO, Yu.Ye.

Characteristics of the wear of cylinders of motor-vehicle engines.
Avt.prom. 31 no.4:14-17 Ap 165.

1. Morkovskiy avtozavod imen: Likhncheva.

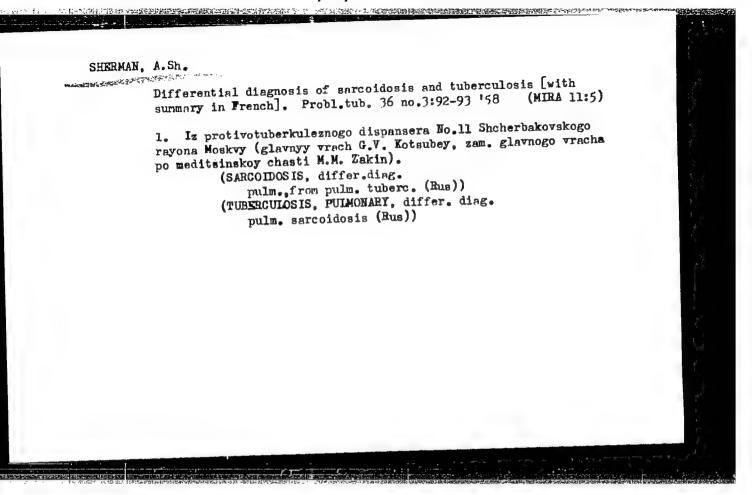
ZAKIN, M.M.; ZUDINA, M.A.; TUMASOVA, G.M.; FRL'MAN, A.N.; SHERMAN, A.Sh.

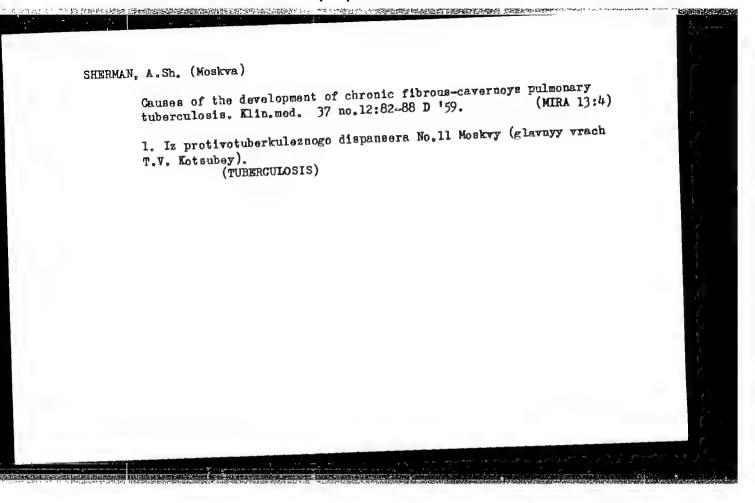
Clinical and epidemiological characteristics of bacillus carriers
[with aummery in rench]. Probl.tub. 35 no.4:10-16 '57. (MLRA 10:8)

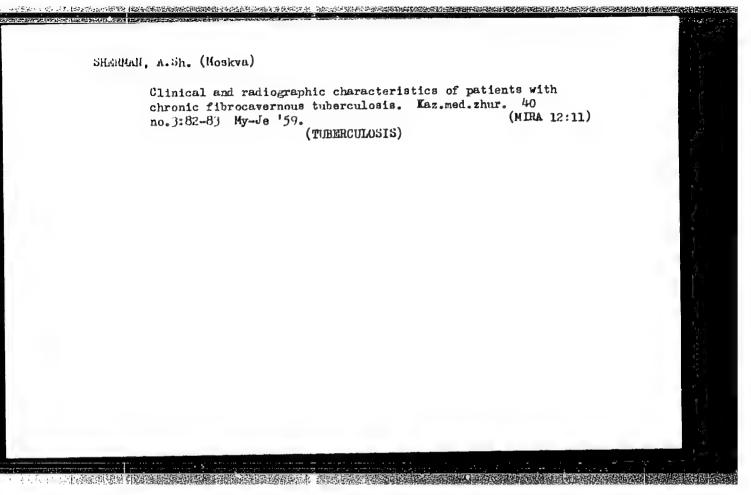
1. Iz protivotuberkuleznogo dispansera No.11 Shcherbakovskogo rayona
Moskvy (glavnyy vrach G.V.Kotsubey, zam. glavnogo vracha po meditainskoy chasti M.M.Zakin)

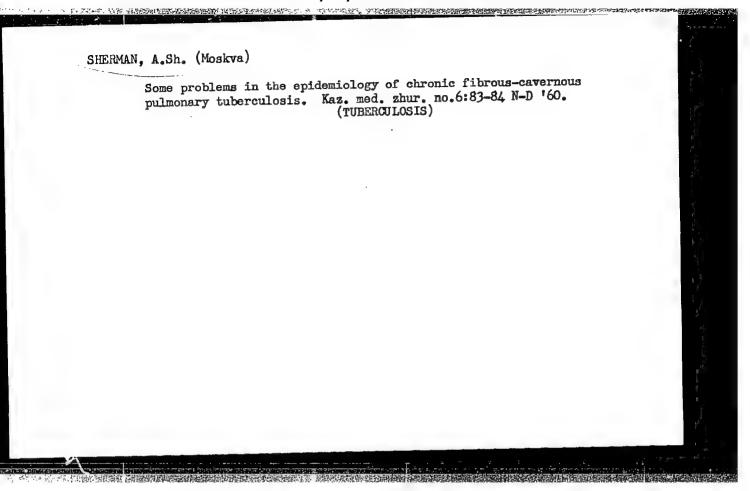
(TUBERGULOSIS

carriers, clin. & epidemiol. characteristics (Rus))









SMULEVICH, V.B.; SHERMAN, A.Sh.

Experience in bronchography in an antituberculosis clinic.

Probl.tub. 39 no.2*98-100 '61.

1. Iz kafedry tuberkuleza (zav. - prof. A.Ye. Rabukhin) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Labedeva)
nogo instituta usovershenstvovaniya vrachey (dir. V.P. Labedeva)
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i (TUBERCULOSIS)

(BRONCHI---RADIOGRAPHY)

SHERMAN, A. Sh.

Tuberculosis incidence among persons coming in contact with patients expecterating Mycobacterium tuberculosis resistant to drug: Probl. tuberk. 41 no.443-6 '63 (MIRA 17:2)

1. Iz protivotuberkuleznogo dispansera No.11, Moskva.

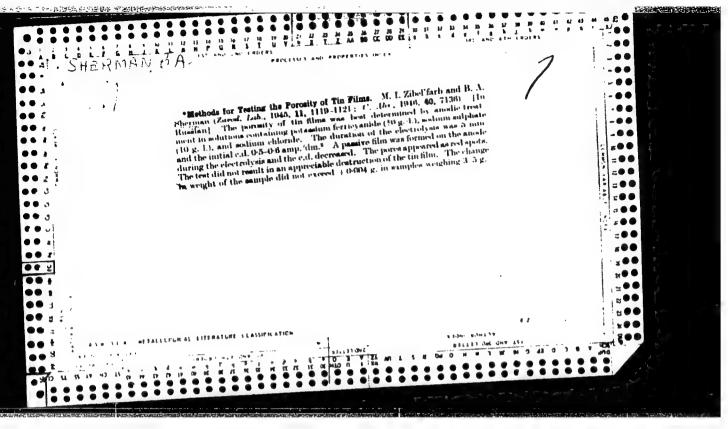
BULANGVA, S.I.; SMILEVICH, V.B.; SHERMAN, A.Sh.

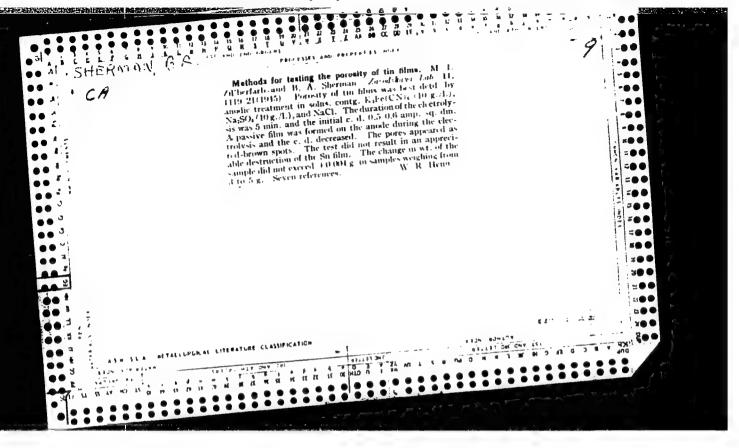
Role of a dispensary for tuberculosis control in the detection of lung cancer. Vop. onk. 11 no.3:85-89 '65.

1. Iz protivotuberkuleznogo dispansera No.11 Moskvy (glavnyy vrach - kand. med. nauk A.Sh. Sherman) i l-go khirurgirheskogo otdeleniya (zav. - doktor med. nauk B.Ye, Peterson) Instituta eksperimental'noy i klinicheskoy onkologii AMM SSSR (cir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Blokhin).

BABELYAN, V.B.; VINNICHENKO, N.G., kand. ekon. nauk; GHEDASH, G.W.;
GRIGOR'YEV, A.N.; DANILOV, N.K.; IVANOV, A.P.; IVLLYEV, Ivan
Vasil'yevich; POTAFOV, I.A.; TRUB KHIH., M.G., kand.ekon. nauk;
TUKHOVITSKAYA, L.K., inzh.; TYVALCHUK, D.F., inzh.; SHEZNAH;
A.Ya.; SHCHERBAKOV, P.D., inzh.; EVETTOV, G.S.; KRISHTAL', L.I.,
red.; MANUNI, Ye.V., tekhn. red.

[Financing in railway transportation; mamual] Finansirovanie na
zheleznodorozhnom transporte; spravochnik. Pod obshchei red. I.V.
Ivlieva. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-ya
putei soobshcheniia, 1962. 422 p.
(Railroads—Finance)





HURREDONSKIY, V.Ye.; VASILENKO, M.I.; VELIER, R.L.; VERBLOVSKIY, A.M.;

VERNER, B.F.; VOYDALOVSKAYA, Ye.N.; VOL'SKIY, A.N.; GLAZKOVSKIY, A.A.;

GRANOVSKIY, B.L.; GREYVER, N.S.; GUDIMA, N.V.; DOLGOPOLOVA, V.I.;

KARCHRYSKIY, V.A.; KOVACHEVA, Ye.B.; KUURYAVTSEV, P.S.; LEBEUEV, A.K.;

LISOVSKIY, D.I.; LIKHNITSKAYA, Z.P.; MATVEYEV, N.I.; MEL'NITSKIY, A.N.;

MIRONOV, A.A.; MIKHRYEVA, A.A.; MURACH, N.N.; OKUE', A.B.; OL'RHOV, N.P.;

OSIPOVA, T.B.; PAVLOV, V.P.; ROTINYAN, A.L.; SAZHIN, N.P.; SEVRYUKOV, N.N.;

SIDOROV, P.M.; SOBOL', S.I.; KHEYFETS, V.L.; TSEYNER, V.M.;

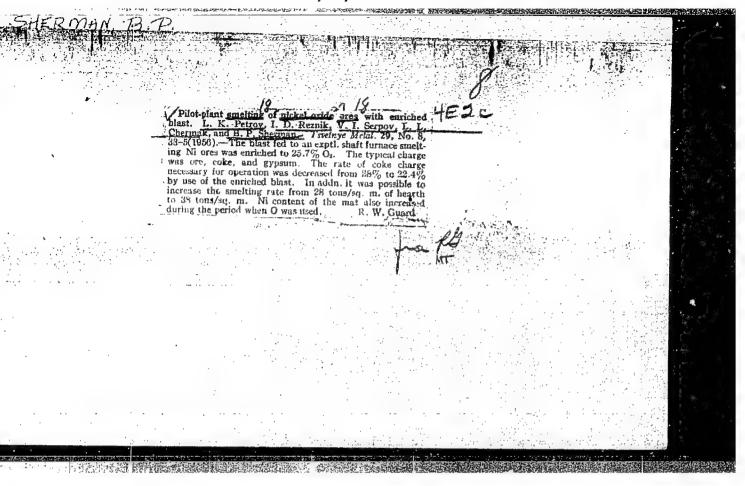
SHAKHNAZAROV, A.K.; SHEYN, Ya.P.; SHERRMET'TEV, S.D.; SHERMAN, B.P.;

SHISHKIN, N.N.; SHLOPOV, A.P.

Georgii Ivanovich Blinov, TSvet.met, 28 no.6:62 N-D '55.

(MIRA 10:11)

(Blinov, Georgii Ivanovich, 1911-1955)



REZNIK, I.D.; SHERMAN, B.P.: SOKIN, B.G.

Starting the operation of a KT-100 oxygen plant in the Southern Urals Nickel Combine. TSvet. met. 29 no.10:34-38 0 '56. (MLRA 9:12)

1. Gintsvetmet Kombinat Yuzhuralinkel'. (Ural Mountain region--Nickel--Metallurgy)

(Oxygen)

SOV/136-59-7-6/20

AUTHORS: Reznik, I.D., Yevdokimenko, A.I., Zaberezhnyy, I.I.,

Sherman, B.P., Kudrin, A.N., Serpov, V.I., Petrov, L.K.

TITLE: Shaft Smelting of Sintered Oxidized Nickel Ores With

Hot Blast

PERIODICAL: Tsvetnnye metally, 1959, Nr 7, pp 30-36 (USSR)

ABSTRACT: The use of hot blast in shaft smelting in non-ferrous metallurgy is comparatively recent. The authors describe

production experiments made by the kombinat (combine) Yuzhuralnikel' together with Gintsvetmet and Gipronikel'. Aside from the authors the following participated in

the work. From Yuzhuralnikel': S. Ye. Lyumkis, M.M.

Zolkina, A.G. Ushakov, V.T. Gritskova, U.D. Shaymukhambetov, N.V. Sukhin, I.S. Firyago, V.I. Mannanikov; from Gintsvetmet: A.S. Buntovnikov, M.S. Kruglyakova, Yu. N. Skvortsov, L.I. Yevdokimova; from

Gipronikel': N.P. Malyk, Ye. M. Simonov, N.N. Sin'ko, A.N. Derevnin. The furnace used had a cross section in

the tuyere zone of 7.2 m² and a width of 2m; stack height was 8 m and the slit tuyeres dipped at 15°.

SOV/136-59-7-6/20

Shaft Smelting of Sintered Oxidized Nickel Ores With Hot Blast

Blast heating was provided by a specially designed oilfired heater. Suitable instrumentation was provided. The experiments were conducted as during a previous investigation (Ref 4) on .e same furnace; a parallel investigation of stack processes was carried out (Ref 5). Blast temperatures of 190, 300 and 400°C were used, the furnace working smoothly (Fig 1 shows the blast-pressure chart) and without difficulties. Compared with cold-blast operation on the same furnace a coke saving of 28.9% was obtained by blast heating to 300°C; allowing for the oil used in the blast heater the economy was 15.2% by weight, 11.5% if the difference in calorific value of oil and coke is taken into account. Fig 2 shows that top gas composition is best at 300°C . This temperature is also close to the optimum for fuel economy (Fig 3) and smelting and coke burning rates (Fig 4). The authors conclude that the tests have shown that blast heating should be introduced into practice. They recommend that oil- or gas-fired blast heaters should be designed, and that the development of methods for blast heating using the heat

Card 2/3

Shaft Smelting of Sintered Oxidized Nickel Ores With Hot Blast

contents of slags and top gases should be accelerated. There are 4 figures, 2 tables and 5 references, 4 of which are Soviet and 1 French.

ASSOCIATION: Gintsvetmet (I. D. Reznik, A. I. Yevdokimenko, I.I. Zaberezhnyy);
Kombinat (Combine) Yuzhurnalnikel' (B. P. Sherman, A. N. Kudrin,
V. I. Serpov); Gipronikel' (L. K. Petrov)

Card 3/3

BOCH KAREV, L.M.; RAGULINA, A.T.; SERPOV, V.I.; CHERMAK, L.L.; SHERMAN, B.P.

Pilot plant testing of the smelting of oxidized nickel ores with a blow containing up to 45 percent oxygen. TSvet. met. 33 no.7:23-28 J1 '60. (MIRA 13:7) (Nickel--Metallurgy) (Oxygen--Industrial applications)

\$/194/61/000/012/010/097 D209/D303

AUTHORS:

Sevast'yanov, V. V., Likhterov, I. M., Petukhov, V.N. Sherman, B. P., Fedotov, V. K. and Golovach, V. K.

TITLE:

Introducing level-meters to nonferrous metallurgy

plants

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 31, abstract 12A229 (Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. V. 3, M., Gostoptekhizdat, 1961, 162-164)

TEXT: Described is a high sensitivity positional level-meter (L) type $\gamma \rho \eta$ -1013 (URP-1013) for signalling attainment of the degree of separation between two substances of different densities without direct contact with the system under investigation. The separation is determined by recording the change of intensity of /-radiation passing through the mixture. The instrument consists of a power unit, four radiation sources and four radiation receivers. Various installation methods of L are described, depending on the proper-

Card 1/2

Introducing level-meters ...

S/194/61/000/012/010/097 D209/D303

ties of the mixture. Installation diagrams of L are given. The application of L to the bins of a crushing-agglomerating plant resulted in its automation. There are 2 figures. / Abstractor's note:

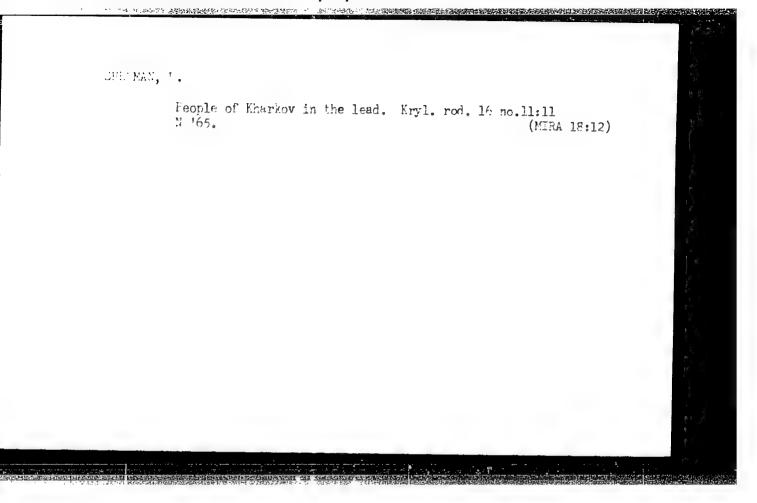
Card 2/2

YEVDOKIMENKO, A.I.; ZABEREZHNYY, I.I.; RAFALOVICH, I.M.; REZNIK, I.D.;
Prinimali uchastiye: SHERMAN, B.P.; KUDRIN, A.N.; GALITSKIY, L.M.;
SERPOV, V.I.; VOROB'YEV, V.A.; STEPAHOV, A.S.; RODIOHOVA, H.M.;
BUNTOVNIKOV, A.S.; YEVDOKIMOVA, L.Ye.

Air blast preheating for shaft furnaces. Tevet. met. 33 no.10:12-20 0 160. (MIRA 13:10)

1. Gosudarstvennyy institut po tsvetnym metallam (for Yevdokimenko, Zaberezhnyy, Rafalovich, Reznik, Rodionova, Buntovnikov, Yevdokimova). 2. Yuzhno-Ural'skiy nikelevyy zavod (for Sherman, Kudrin, Galitskiy, Serpov, Vorob'yev, Stepanov). (Air preheaters)

(Metallurgical furnaces - Equipment and supplies)



SHERMAN, D.

Preventing accidents in parachuting. Kryl. rod. 13 no.10:22 0 162. (MIRA 15:10)

1. Nachalinik meditsinskoy sluzbby Kiyevskogo aerokluba.

(Parachuting—Safety measures)

45643

247500

S/126/63/015/001/029/029 E073/E151

Williams: lyubchenko, A.P., Sherman, D.G., and Kuziminov, G.S.

Till: Effect of cerium content of iron on self-diffusion

11 FigureCal: Fizika metallov i metallovedeniye, v.15, no.1, 1963, 158-160

That is the authors have already shown that Ce additions of up to 0.5% have no effect on the ratio of the intercrystalline ($D_{\rm Body}$) self-diffusion coefficients of Fe.

Further investigations were carried out on pure Armco iron, vacuum induction melted, into which Ce was added, and the ratio $K_{\mbox{Fe}}$,

 $d(D_{Boun} \times D_{Body}^{-1/2})$

was determined using the isotope Fe₅₉. It was found that Ce additions of up to 0.52% had little effect on the self-diffusion ratio, and that at elevated temperatures the individual values for inter- and trans-crystalline diffusion were not greatly changed.

Effect of cerium content of iron... \$\frac{\\$5/126/63/015/001/029/029}{\\$E073/\\$E151}

Fluctuations of $\stackrel{*}{=}$ 100% in the value of $K_{{f F}{f e}}$ were obtained as Ce was increased from 0 to 0.52%, but the overall effect, discounting the fluctuations, appeared to be negligible. This is contrary to the findings of K.P. Bunin and Ya.M. Malinochka that the effect of spheroidisers was to equalise the inter- and trans-crystalline mobilities of the Fe atoms. The experimental and published results show that the effect of Ce, Mg, etc. on the graphite in cast iron is not related to the kinetics of self-diffusion and it is probable that the surface active properties of the spheroidiser are responsible for spheroidisation. The electron orbits of additions appear to influence the shape of the graphite particles, as is seen by comparing the electron structures of spheroidising agents (Li, Na, Mg, K, Ca, Sr, Ba, Ce) with those of despheroidising agents (Ti, Cu, Sb, Fb, Bi). Inconsistencies in the behaviour of added elements on the structure of the graphite appears to be due to changes in electron configuration caused by interaction with impurities in the iron. Spheroidisation can also be achieved by additions which ensure the required electron configuration when absorbed on the graphite. Card 2/3

E rect of cerium content of iron ... \$\frac{5}{126}/63/015/001/029/029 \text{E073/E151}\$

The are 2 tables.

Indien: Ehartkovskiy zaved transportnogo mashinostroyeniya (ibartkov Transport Engineering Works imeni V.A. Malyshey)

I SMITTID: April to, 1962

Card 3/3

\$/126/63/015/002/024/033 E193/E383

Lyubchenko, A.P., Sherman, D.G. and Udovikov, V.I. AUTHORS:

The effect of small magnesium additions on the self-TITLE:

diffusion of iron

Fizika metallov i metallovedeniye, v. 15, no. 2, PERIODICAL:

1965, 295 - 297

TEXT: In continuation of earlier work (A.P. Lyubchenko et al - FMM, 1962, 14, 1; 1962, 14, 6), the present authors studied the nature of self-diffusion of iron modified with additions of magnesium in quantities (0.005 - 0.02%) usually used in the fabrication of high-strength, nodular cast irons. Similar experiments were also carried out on grey and magnesium-modified cast irons. The diffusion of iron was studied at 960 - 1 200 °C. Both the radiometric and outer radiographic methods were used. Conclusions: 1) the grain-boundary diffusion predominates in Mg-bearing iron at 900 - 1 200 °C. 2) The order of magnitude of the self-diffusion coefficient of iron is not affected by Mg additions - the same applying to diffusion of Fe in Mg-modified cast iron. 5) Mg acts as a grain-refining agent and slows down the rate of grain-growth Card 1/3

S/126/63/015/002/024/033 E193/E383

The effect of

in Fe at 960 - 1 100 °C. This is demonstrated in a figure where the grain size (µ) is plotted against the annealing temperature (°C) of armco iron (top curve) and iron with 0.005, C.14 and 0.02% Mg (lower curves, in this order); the graph has been constructed for specimens annealed for 20 hours. There are 1 figure and 1 table.

ASSOCIATION:

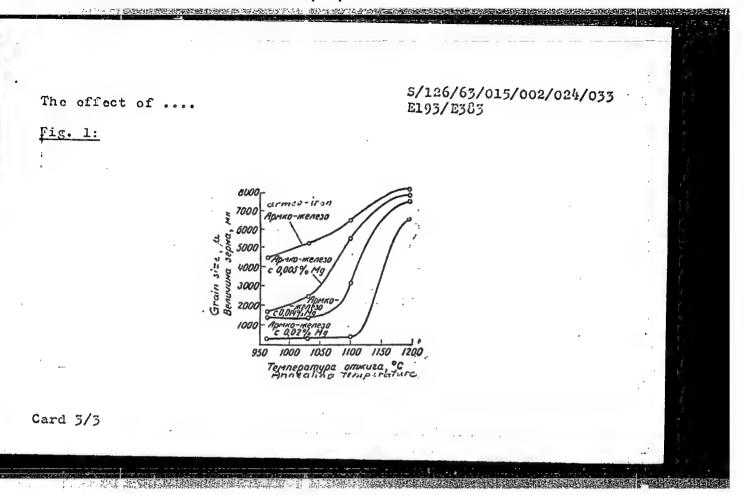
Khar'kovskiy zavod transportnogo mashinostroyeniya im. V. A. Malysheva (Khar'kov Transport Machinery Works im. V.A. Malyshev)

SUBMITTED:

June 6, 1962 (initially)

August 9, 1962 (after revision)

Card 2/3



LYUBCHERKO, A.P.; SHEEMAN, D.G.; TANANKO, I.A.

Modeling the process of cast iron modification on transparent crystals. Fiz. met. i metalloved. 16 no.3:378-384 S '63. (MIRA 16:11)

1. Khar kovskiy zavod transportnogo mashinostroyeniya izeni V.A. Malysheva.

LYUBCHENKO, A.P.; SHERMAN, D.G.

Absorptive character of changes in the aspect of ammonium chloride crystals under the effect of NH₄Cl. Fiz. met. i metalloved. 16 no.4:636 0 '63. (MIRA 16:12)

1. Khar'kovskiy zavod transportnogo mashinostroyeniya imeni V.A.Malysheva.

VYGODSKIY, A.I.; NESTERENKO, V.G.; SHERMAH, D.G.

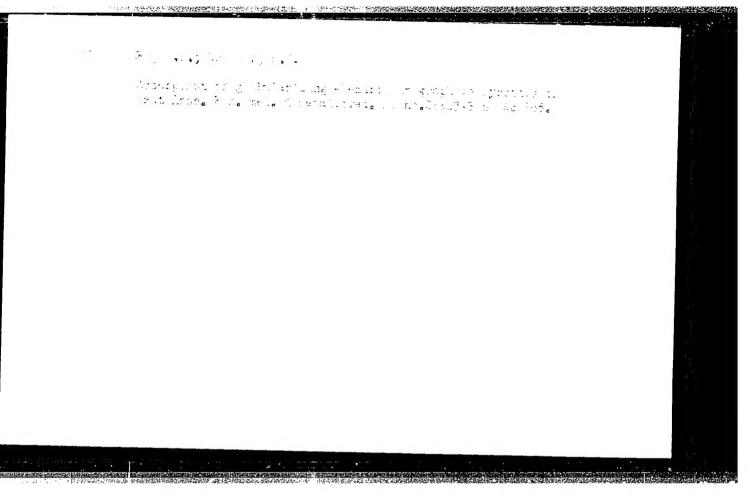
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